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## We claim:

- 1. A substantially purified nucleic acid molecule that encodes a plant protein or fragment thereof comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 81288.
- 2. The substantially purified nucleic acid molecule of claim 1, wherein said plant protein is a rice protein.
- 3. A substantially purified rice protein or fragment thereof, wherein said rice protein is encoded by a nucleic acid molecule that comprises a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 81288.
  - 4. A transformed plant having a nucleic acid molecule which comprises:
    - (a) an exogenous promoter region which functions in a plant cell to cause the production of a mRNA molecule;
    - (b) a structural nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 81288 or complements thereof;
    - (c) a 3' non-translated sequence that functions in said plant cell to cause termination of transcription and addition of polyadenylated ribonucleotides to a 3' end of said mRNA molecule.
- 5. The transformed plant according to claim 4, wherein said structural nucleic acid molecule is a complement of any of the nucleic acid sequences of SEQ ID NO: 1 through SEQ ID NO: 81288.
- 6. The transformed plant according to claim 5, wherein said plant is cotton, wheat, rice, soybean or maize.
  - 7. The transformed plant according to claim 5, wherein said plant is maize.
  - 8. The transformed plant according to claim 5, wherein said plant is soybean.
    - 9. The transformed plant according to claim 5, wherein said plant is rice.